

IN THE CLAIMS

Please amend the claims as set out in the following listing of the claims. This claim listing replaces and supersedes all prior claim listings:

1. (Currently Amended) An image decoder for decoding encoded motion picture data composed of plural frames of image data having a plurality of frames and for displaying the decoded motion picture data; the image decoder comprising:

an electric power ~~supplying means~~ source having consumable energy for supplying an electric power to respective units of the image decoder;

means for determining the remaining energy of said source;

a decoding means for ~~sequentially decoding each the frames of~~ image data of the encoded motion picture data at an adjustable image frame rate to provide an adjustable number of bits per pixel of the decoded motion picture data;

a displaying means for ~~sequentially displaying each image data the frames of~~ the decoded motion picture data; and

a controlling means for controlling ~~a decoding process in the decoding means on the basis of anticipated energy to be required~~ needed for playing decoding and displaying the motion picture data and the remaining energy of the electric power supplying means source to dynamically control the playing quality of the motion picture data by selectively reducing said image frame rate or said number of bits per pixel.

2. (Currently Amended) The image decoder according to claim 1, ~~further comprising~~ wherein said decoding means includes a CPU operable at an adjustable frequency; and said means for determining the remaining energy comprises a load

monitoring means for monitoring the computational load of the decoding means, ~~wherein~~
~~the load monitoring means adjusts and to adjust~~ the CPU frequency of the decoding
means in accordance with the computational load corresponding to the playing quality.

3. (Canceled)

4. (Currently Amended) An image decoding method ~~of performed by~~ an image
decoder for decoding encoded motion picture data composed of plural frames of image
data ~~having a plurality of frames and~~ for displaying the decoded motion picture data; ~~the~~
~~image decoding method comprising the steps of:~~

~~a decoding step for sequentially decoding each the frames of~~ image data of the
encoded motion picture data at an adjustable image frame rate to provide an adjustable
number of bits per pixel of the decoded motion picture data;

~~a displaying step for sequentially displaying each image data the frames of the~~
decoded motion picture data ~~on a displaying means;~~ and

~~a controlling step for controlling a decoding process in the decoding step on the~~
basis of anticipated energy ~~to be required~~ needed for ~~playing- decoding and displaying the~~
motion picture data and the remaining energy of an electric power ~~supplying means for~~
~~supplying~~ source that supplies electric power to respective units of the image decoder to
dynamically control the playing quality of the motion picture data by selectively reducing
said image frame rate or said number of bits per pixel.

5. (Currently Amended) The image decoding method according to claim 4, wherein the image decoder includes a CPU operable at an adjustable frequency; and a load monitoring means for the decoding step further comprises monitoring a computational load when decoding in the decoding step, the image decoding method further comprising a CPU frequency adjusting step for and adjusting a the CPU frequency in the decoding step in accordance with the computational load corresponding to the playing quality ~~by the load monitoring means.~~

6. (Canceled)

7. (Currently Amended) A program embodied in a computer-readable medium for ~~executing~~ controlling an image decoding process performed by in an image decoder for decoding encoded motion picture data composed of plural frames of image data having a plurality of frames and for displaying the decoded motion picture data; ~~the program comprising by:~~

~~a decoding step for sequentially decoding each the frames of image data of the encoded motion picture data~~ at an adjustable image frame rate to provide an adjustable number of bits per pixel of the decoded motion picture data;

~~a displaying step for sequentially displaying each image data the frames of the decoded motion picture data on a displaying means; and~~

~~a controlling step for controlling a decoding process in the decoding step on the basis of anticipated energy to be required needed for playing decoding and displaying the motion picture data and the remaining energy of an electric power supplying means for~~

supplying source that supplies electric power to respective units of the image decoder to dynamically control the playing quality of the motion picture data by selectively reducing said image frame rate or said number of bits per pixel.

8-14 (Canceled).

15. (Currently Amended) An image decoder for decoding encoded motion picture data composed of plural frames of image data having a plurality of frames and for displaying the decoded motion picture data; the image decoder comprising:

a decoding means for ~~sequentially decoding each~~ the frames of image data of the encoded motion picture data;

a displaying means for ~~sequentially displaying each image data~~ the frames of the decoded motion picture data; and

a controlling means for controlling ~~a decoding process in the~~ decoding means to dynamically control the playing quality of the motion picture data, ~~wherein the~~ controlling means dynamically controls the playing quality of the motion picture data on the basis of a unit time during which a predetermined number of frames is are to be displayed, a time ~~required for displaying the~~ needed to display said predetermined number of frames, or an anticipated time ~~to be required for displaying~~ needed to display said ~~the~~ predetermined number of frames.

16. (Currently Amended) The image decoder according to claim 15, wherein the controlling means anticipates the time ~~to be required for displaying~~ needed to display the

predetermined number of frames on the basis of the number of frames that can be displayed during the unit time.

17. (Currently Amended) The image decoder according to claim 15, wherein the playing quality ~~indicates~~ is determined by the number of frames to be played ~~displayed~~ during the unit time or the number of bits ~~for one per pixel of each~~ the decoded image data.

18. (Currently Amended) An image decoding method ~~of an image decoder for~~ decoding encoded motion picture data composed of plural frames of image data ~~having a plurality of frames and~~ for displaying the decoded motion picture data; ~~the image decoding method comprising the steps of:~~

~~a decoding step for sequentially decoding each~~ the frames of image data of the encoded motion picture data;

~~a displaying step for sequentially displaying each image data~~ the frames of the decoded motion picture data ~~on a displaying means; and~~

~~a controlling step for controlling a decoding process in the decoding step to~~ dynamically control the playing quality of the motion picture data, ~~wherein the controlling step dynamically controls the playing quality of the motion picture data on the~~ basis of a unit time during which a predetermined number of frames ~~is~~ are to be displayed, a time ~~required for displaying~~ needed to display the predetermined number of frames, or an anticipated time ~~to be required for displaying~~ needed to display the predetermined number of frames.

19. (Currently Amended) The image decoding method according to claim 18, wherein the step of controlling ~~step~~ anticipates the time ~~to be required for displaying~~ needed to display the predetermined number of frames on the basis of the number of frames that can be displayed during the unit time.

20. (Currently Amended) The image decoding method according to claim 18, wherein the playing quality ~~indicates~~ is determined by the number of frames to be ~~played~~ displayed during the unit time or the number of bits ~~for one per pixel of each~~ the decoded image data.

21. (Currently Amended) A program embodied in a computer readable medium for ~~executing~~ controlling an image decoding process ~~in an image decoder for decoding to~~ decode encoded motion picture data composed of plural frames of image data ~~having a plurality of frames and~~ for displaying the decoded motion picture data ~~by the program~~ comprising:

~~a decoding step for sequentially decoding each~~ the frames of image data of the encoded motion picture data;

~~a displaying step for sequentially displaying each image data~~ the frames of the decoded motion picture data ~~on a displaying means; and~~

~~a controlling step for controlling a decoding process in the decoding step to~~ dynamically control the playing quality of the motion picture data, ~~wherein the~~ controlling step dynamically controls the playing quality of the motion picture data on the

basis of a unit time during which a predetermined number of frames ~~is~~are to be displayed, a time ~~required for displaying~~ needed to display the predetermined number of frames, or an anticipated time ~~to be required for displaying~~ needed to display the predetermined number of frames.